

WHAT IS CLAIMED IS:

1. A dehumidification system, comprising:
 - a dehumidifier;
 - a user interface;
 - a humidity sensor for determining relative humidity of an area;
 - means carried by said user interface for selecting a desired humidity for said area; and
 - a controller interconnected with said dehumidifier, said humidity sensor, and said selecting means, and wherein said controller activates said dehumidifier when said relative humidity is higher than said desired humidity.
2. The dehumidification system as recited in claim 1, wherein said dehumidifier, said user interface, and said controller are connected by electrical wiring.
3. The dehumidification system as recited in claim 1, wherein said dehumidifier, said user interface, and said controller are connected by wireless connection.
4. The dehumidification system as recited in claim 1, further comprising a plurality of fans that are connected to said dehumidifier.
5. The dehumidification system as recited in claim 1, wherein said user interface unit includes a service light.

6. The dehumidification system as recited in claim 1, wherein said user interface unit includes a display, wherein said display shows said relative humidity, said desired humidity, and the temperature of said area.

7. The dehumidification system as recited in claim 1, wherein said user interface unit includes a power input.

8. The dehumidifier as recited in claim 1, further comprising a wood moisture sensor for measuring the wood moisture in said area and means for selecting a desired wood moisture, wherein said controller activates said dehumidifier when said actual wood moisture is higher than said desired wood moisture.

9. The dehumidifier as recited in claim 8, wherein said controller activates said dehumidifier either when said relative humidity is higher than said desired humidity or when said wood moisture is higher than said desired wood moisture.

10. A method for maintaining the moisture level of an area at or below a pre-selected level, comprising:

installing a dehumidifier;

installing a user interface;

installing a humidity sensor for determining relative humidity of an area;

installing means for selecting a desired humidity for said area;

installing a controller; and

connecting said dehumidifier, said user interface, said humidity sensor, said selecting means, and said controller, wherein said controller activates said dehumidifier when said relative humidity is higher than said desired humidity.

11. The method as recited in claim **10**, further comprising installing at least one fan.

12. The method as recited in claim **11**, further comprising connecting said at least one fan to said dehumidifier.

13. The method as recited in claim **10**, further comprising installing a wood moisture sensor for measuring wood moisture.

14. The method as recited in claim **13**, further comprising installing means for selecting a desired wood moisture, wherein said controller activates said dehumidifier when said wood moisture is higher than said desired wood moisture.

15. The method as recited in claim **10**, wherein said user interface has a display that is remote from said humidifier.

16. The method as recited in claim **15**, wherein said display includes said selecting means.

17. The method as recited in claim **16**, further comprising selecting a desired humidity.

18. The method as recited in claim **1**, wherein said connecting step is done by wireless connection.

19. The method as recited in claim **1**, wherein said connecting step is done by electrical wiring.

20. The method as reciting in claim **1**, further comprising connecting said dehumidifier, said user interface, said humidity sensor, said selecting means, and said controller to an alarm system.